

**Claims**

1. A tool holder (1) comprising:

a shaft (2) intended to be arranged in a tool holder in a manufacturing machine;

a head (3) on which a cutter is intended to be arranged; and

5 a viscoelastic material (4) arranged such that the cutter is in contact with the manufacturing machine solely via the viscoelastic material (4), and a bearer material attached to this.

2. The tool holder according to claim 1, characterised in that at least those parts on the surface (5) of the shaft (2) that are intended to be in contact with the manufacturing machine are provided with a viscoelastic material.

3. The tool holder according to claim 2, characterised in that the viscoelastic material (4) surrounds the surface (5) of the shaft (2).

4. The tool holder according to any one of the preceding claims, characterised in that the viscoelastic material (4) is divided into a number of plates (7) threaded onto the shaft (2) and arranged next to each other.

5. The tool holder according to any one of claims 2-4, characterised in that a metal tube (6) is arranged coaxially external to the viscoelastic material (4) intended to absorb and even out the pressure during mounting.

6. The tool holder according to any one of claims 2-5, characterised in that the viscoelastic material (4) has ridges (8) arranged in tracks (9) in the surface (5) of the shaft (2) running along its longitudinal axis.

7. The tool holder according to any one of claims 2-6, characterised in that attached bearer material is glued onto the viscoelastic material (4) on the surface (5) of the shaft (2).

8. The tool holder according to any one of claims 4-7, characterised in that the plates (7) are punched out.

9. The tool holder according to claim 1, characterised in that the shaft (2) and the head (3) are two separate pieces joined together by the viscoelastic material (4).

10. The tool holder according to claim 9, characterised in that the viscoelastic material (4) is attached to the shaft (2) and the head (3) by gluing.

11. The tool holder according to any one of the preceding claims, characterised in that the shaft (2) is provided with a cavity.

12. The tool holder according to claim 11, characterised in that the cavity is a drilled cylinder.